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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,032	03/16/2004	Jun Okazaki	1035-500	1262
23117 7	7590 11/13/2006	EXAMINER		
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203		MULPURI, SA VITRI		
		LOOK	ART UNIT	PAPER NUMBER
			2812	-
			DATE MAILED: 11/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/801,032	OKAZAKI, JUN				
	Office Action Summary	Examiner	Art Unit				
	•	Savitri Mulpuri	2812				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	•		•				
1)⊠	Responsive to communication(s) filed on 31 Au	<u>ıgust 2006</u> .					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This	action is non-final.					
3)	Since this application is in condition for allowar						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims		•				
5)□ 6)⊠ 7)□	Claim(s) 1-10 is/are pending in the application.  4a) Of the above claim(s) 11-12 is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-10 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers							
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
		•					
2) Notice 3) Inform	et(s)  ce of References Cited (PTO-892)  ce of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO/SB/08)  er No(s)/Mail Date 3/04,6/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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### **DETAILED ACTION**

This action is in response to the applicant's election of claims 1-10, filed on 8/31/2006.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-2, 5-10 are rejected under 35 U.S.C. 102(a) as being anticipated by Uchizaki et al (US 6,646,975).

Uchizaki et al teaches a method of making semiconductor laser device including plurality of semiconductor laser elements "240, 241" on a sub mount "354" comprising the steps of : an emission source forming step of stacking a semiconductor layer "212-217" for laser structure" 240" and "222-227" for laser structure "241" on a single substrate "210" and forming plurality of emission sources; a mounting step of mounting the substrate with the emission sources "250,251" on the sub mount (fig.10- fig.19 and col. 18, lines 40-53, fig. 24 E).

With respect to claims 1, 0 Uchizaki et al teaches cutting all the way into the substrate by reactive ion etching (see fig. 17, fig. 18, 24A-24C").

With respect to claims 2,5,6 Uchizaki et al teaches cutting all the way into the substrate by reactive ion etching, wherein isolation grooves "236" in layer structure are

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defined by a specific crystal face of semiconductor material of the semiconductor layer structure. (see fig. 17, fig. 18, 24A-24C").

With respect to claims 7-8 Uchizaki et al teaches sub mount is made of ceramic such as AIN, which can be insulator (col. 18, lines 44-45)

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3,4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okazaki et al in combination with Tsutsui et al (US 6,197,609)

Okazaki et al do not teach forming isolation grooves at greater interval than the substrate and not tapering towards the substrate. Tsutsui et al teaches forming isolation grooves at greater interval than the substrate and not tapering towards the substrate(see fig.1 and abstract). It would have been obvious to one of ordinary skill in the art to use tapering towards substrate to improve the light emitting devices.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Prior art teaches method of making laser structures..

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 a.m. to 4.30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Savitfi Mulpuri Primary Examiner Art Unit 2812